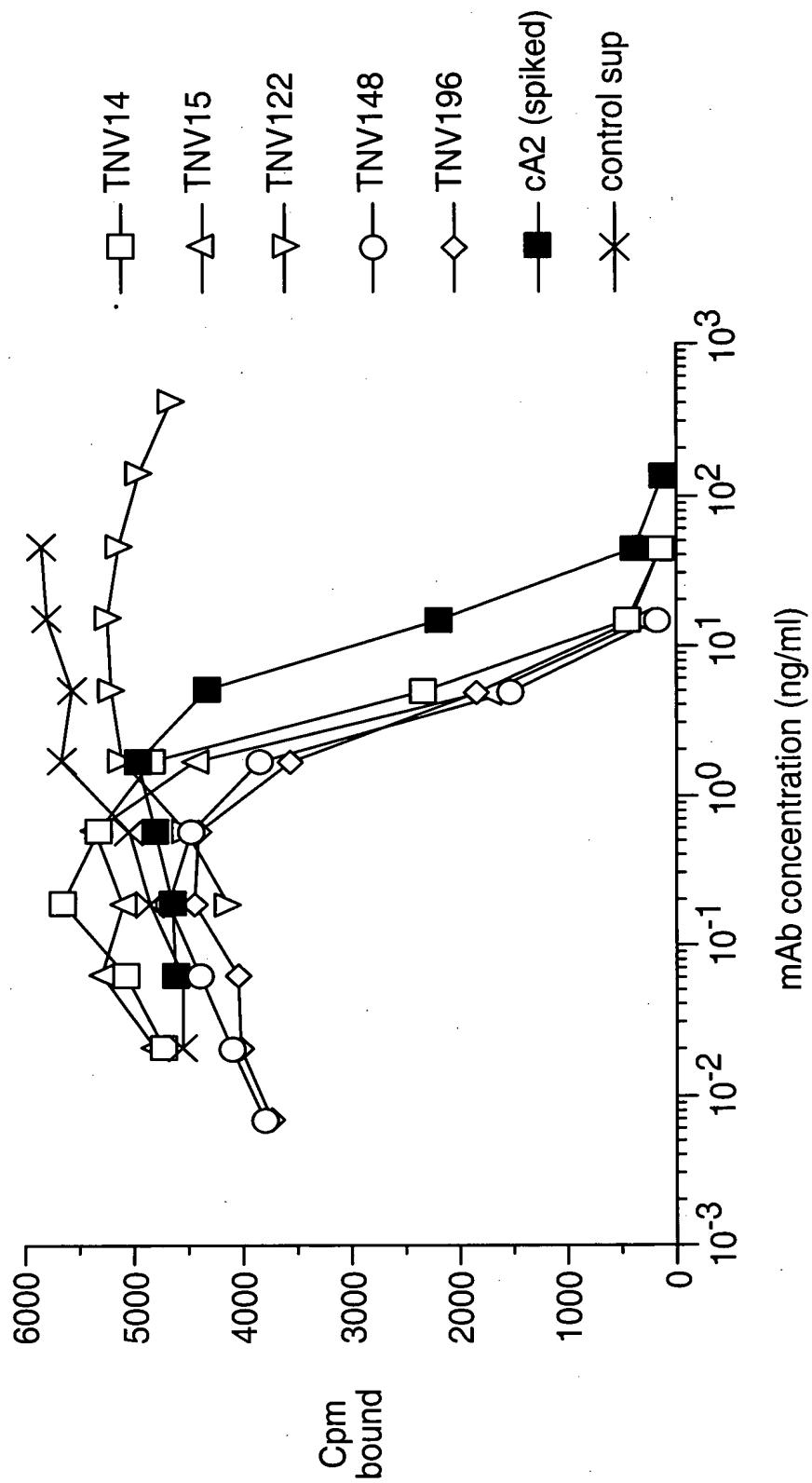


42

FIG. 1



2/26

FIG. 2A

TNVs ATGGGGTTGGGCTGAGCTGGGTTTCCTCGTTGCTCTTTAAGA

	F	T	F	S	S	Y	A	M	H	W	V	R	Q	A	P
germline	TTCACCTTCAGTAGCTATGCTATGCACTGGGTCCGCCAGGCTCCA														
TNV14,15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TNV148 (B)	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.
TNV196	.	.	.	.	.	.	.	.	C	.	.	.	.	.	.

	G	K	G	L	E	W	V	A	<u>V</u>	I	S	Y	D	G	S
germline	GGCAAGGGGCTGGAGTGGGTGGCAGTTATATCATATGATGGAAGC														
TNV14								A	.....	C	T	.....	T	
TNV15								T	.....	T	.....	T		
TNV148 (B)	C	.....						T	.....	G	.....		
TNV196								T	.....				

	<u>N</u>	<u>K</u>	<u>Y</u>	<u>Y</u>	<u>A</u>	<u>D</u>	<u>S</u>	<u>V</u>	<u>K</u>	<u>G</u>	<u>R</u>	<u>F</u>	<u>T</u>	<u>I</u>	<u>S</u>
germline	A	T	T	A	A	T	A	C	G	A	G	G	C	C	A
TNV14	.	G	C	.	.	A	.	G	.	.	.	G	.	.	.
TNV15	.	.	C	.	.	A	.	G	.	.	.	.	C	.	.
TNV148 (B)	A	.	G	.	.	.	.	.	.	.	.
TNV196	A	.	G	.	C	.	.	.	G	.	.

3/26

FIG. 2B

germline R D N S K N T L Y L Q M N S L
TNV14 AGAGACAATTCCAAGAACACGCTGTATCTGCAAATGAACAGCCTG
TNV15
TNV15 G ..
TNV148 C ..
TNV148B
TNV196 T ..

germline R A E D T A V Y Y C A R
TNV14, 15 AGAGCTGAGGACACGGCTGTATTACTGTGCGAGA
TNV148 (B) GATCGAGGT
TNV196 A ..

germline Y Y Y Y Y G M D V W
TNV14 TACTACTACTACGGTATGGACGTCTGG
TNV15 ATATCAGCAGGTGGAA ..
TNV15 G.C .. A.T .. T ..
TNV148 (B) ... G .. A ..
TNV196 ... TGG .. A ..

germline G Q G T T V T V S S
TNV14 C ..
TNV15 C ..
TNV148 (B) ... C ..
TNV196 ... C .. G ..

4/26

FIG. 3

TNVs ATGGAAGCCCCAGCTCAGCTTCTCTTCCTGCTACTCTGGCTC

germline E I V L T Q S P A T
TNVs GAAATTGTGTTGACACAGTCTCCAGGCCACC
CCAGATACCACCGGA.....

germline L S L S P G E R A T L S C R A
TNVs CTGTCTTGTCCTCCAGGGAAAGAGGCCACCCTCTCCTGCAGGGCC
.....

germline S Q S V S S Y L A W Y Q Q K P
TNV14, 15 AGTCAGAGTGTAGCAGCTACTTAGCCTGGTACCAACAGAAACCT
TNV148, 196 TA

germline G Q A P R L L I Y D A S N R A
TNVs GGCCAGGCTCCCAGGCTCCTCATCTATGATGCATCCAACAGGGCC
.....

germline T G I P A R F S G S G S G T D
TNVs ACTGGCATCCCAGCCAGGTTCACTGGCAGTGGTCTGGGACAGAC
.....

germline F T L T I S S L E P E D F A V
TNVs TTCACTCTCACCATCAGCAGCCTAGAGCCTGAAGATTTGCAGTT
.....

Germline Y Y C Q Q R S N W P P F T F G
TNVs TATTACTGTCAGCAGCGTAGCAACTGGCCTCCATTCACTTCGGC
.....

germline P G T K V D I K R
TNVs CCTGGGACCAAAGTGGATATCAAACGT
.....

5/26

FIG. 4

germline	<u>MGFGLSWVFLVALLRGVQC</u>	signal
TNVs	.....
germline	QVQLVESGGVVQPGRSLRLSCAASGFTFS	FR1
TNVs	.....
TNV148 (B)	.....I..	
germline	SYAMH	CDR1
TNVs	....
germline	WVRQAPGKGLEWVA	FR2
TNVs	.....
TNV148 (B)	.....N.....	
germline	VISYDGNSNKYYADSVKG	CDR2
TNV14	I.L.....S.K.....D	
TNV15	F.L.....K.....	
TNV148 (B)	FM.....K.....	
TNV196	F.....KS.....	
germline	RFTISRDN SKNTLYLQMNSLRAEDTAVYYCAR	FR3
TNV14	.....
TNV15	.....A.....	
TNV148	.....P.....	
TNV148B	.....
TNV196	....V.....F.....F....	
germline	-----YYYYY GMDV	
TNV14	DRGI SAGGN.....	CDR3
TNV15	...V....N.....	
TNV148 (B)	....A....N.....	
TNV196	....G....N.....	
germline	WGQGT TVTVSS	J6
TNVs	.....

6/26

FIG. 5

TNVs MEAPAQLLFLLLLWLPDTTG signal

germline EIVLTQSPATLSLSPGERATLSC FR1
TNVs

germline RASQSVSSYLA CDR1
TNV14
TNV15
TNV148 (B) Y . . .
TNV196 Y . . .

germline WYQQKPGQAPRLLIY FR2
TNVs

germline DASNRAT CDR2
TNVs

germline GIPARFSGSGSGTDFTLTISSLEPEDFAVYYC FR3
TNVs

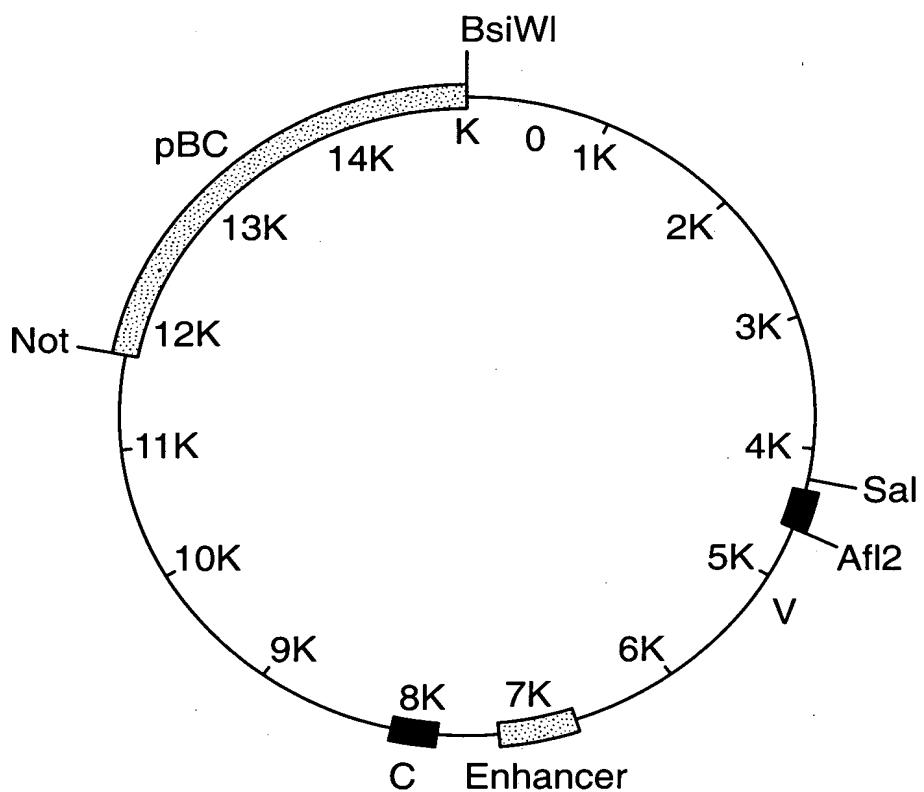
germline QQRSNWPPFT CDR3
TNVs

germline FGPGTKVDIK J3
TNVs

7/26

FIG. 6

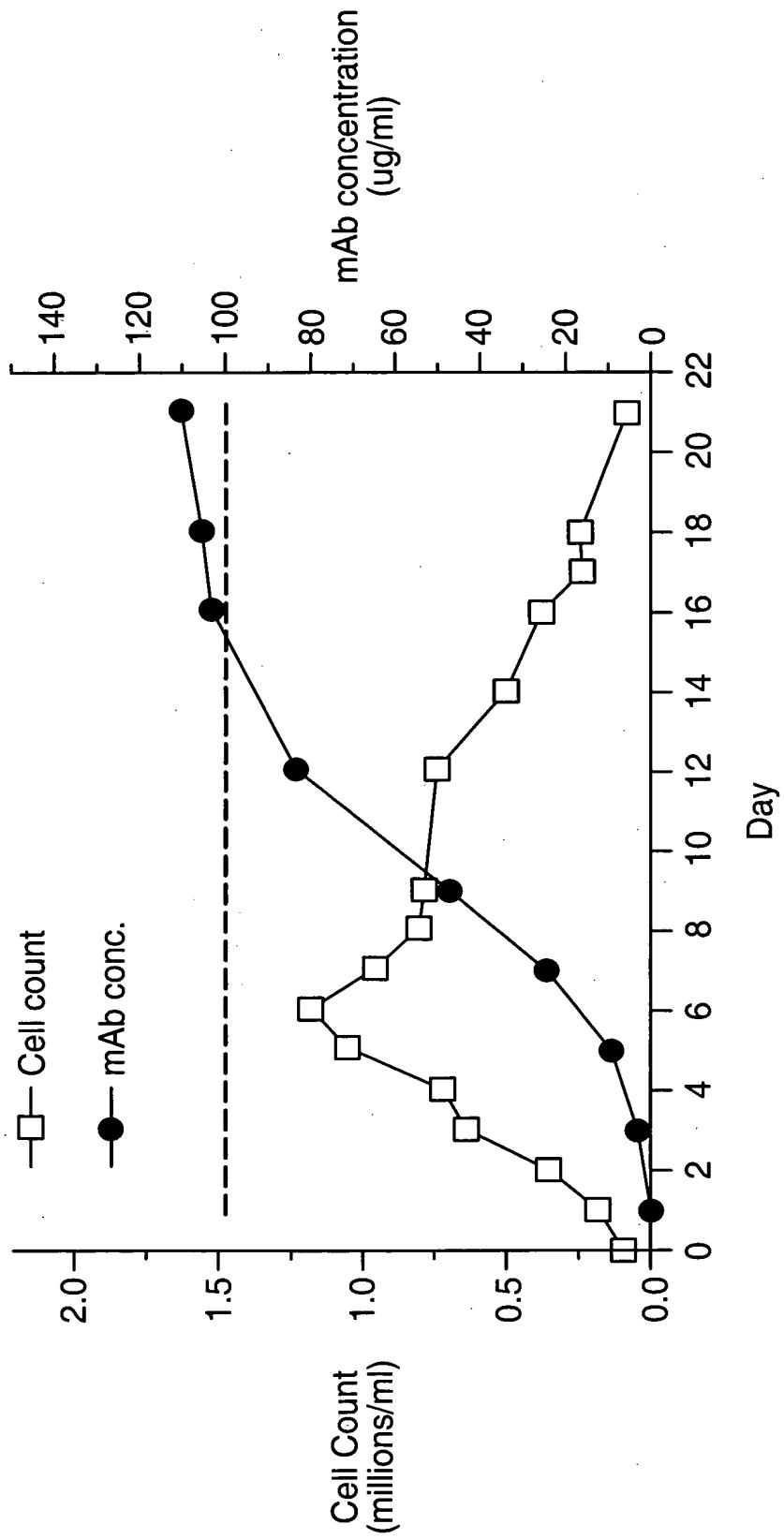
p1776



8/26

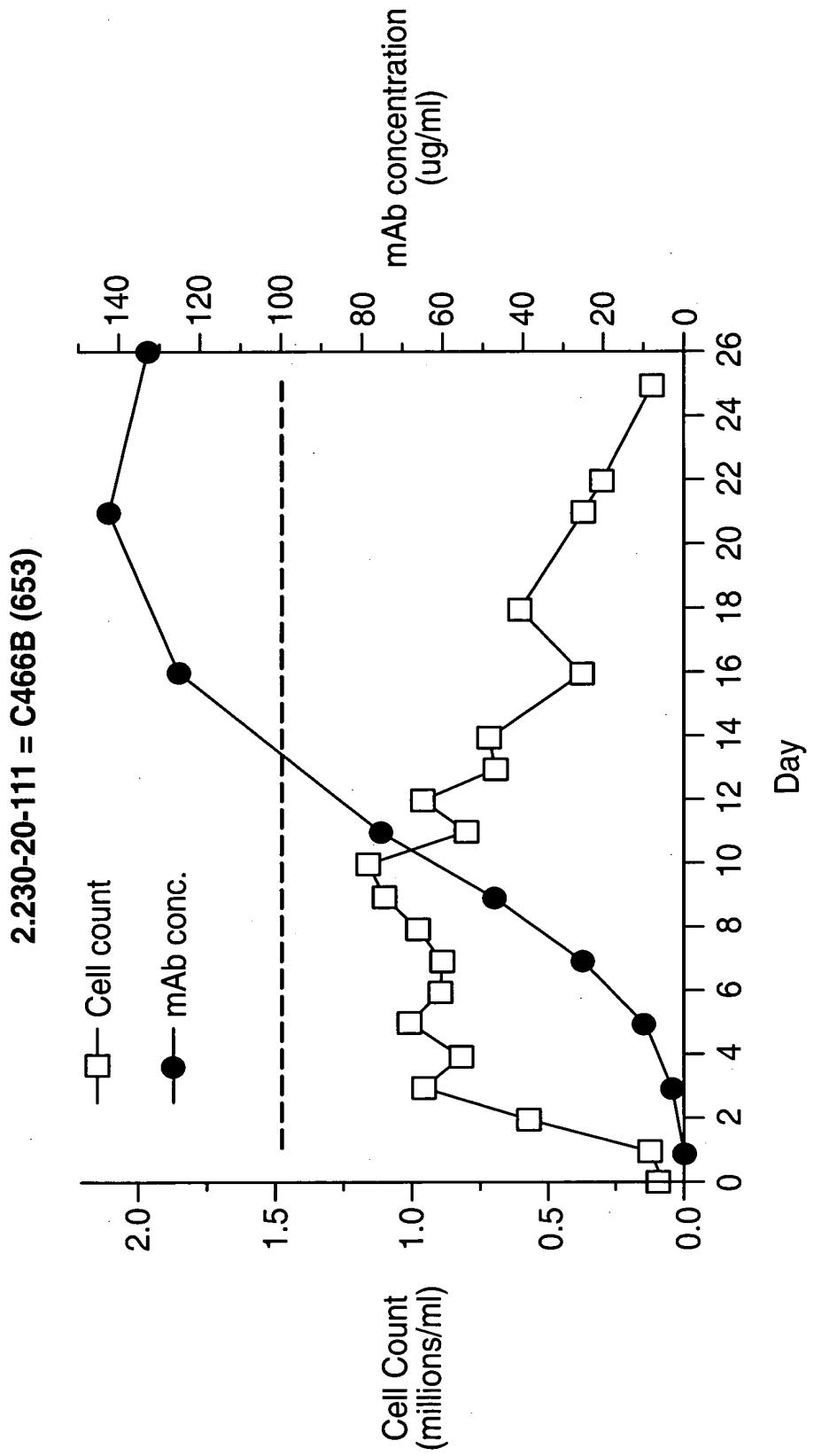
FIG. 7A

2.320-17-36 = C466A (653)



9/26

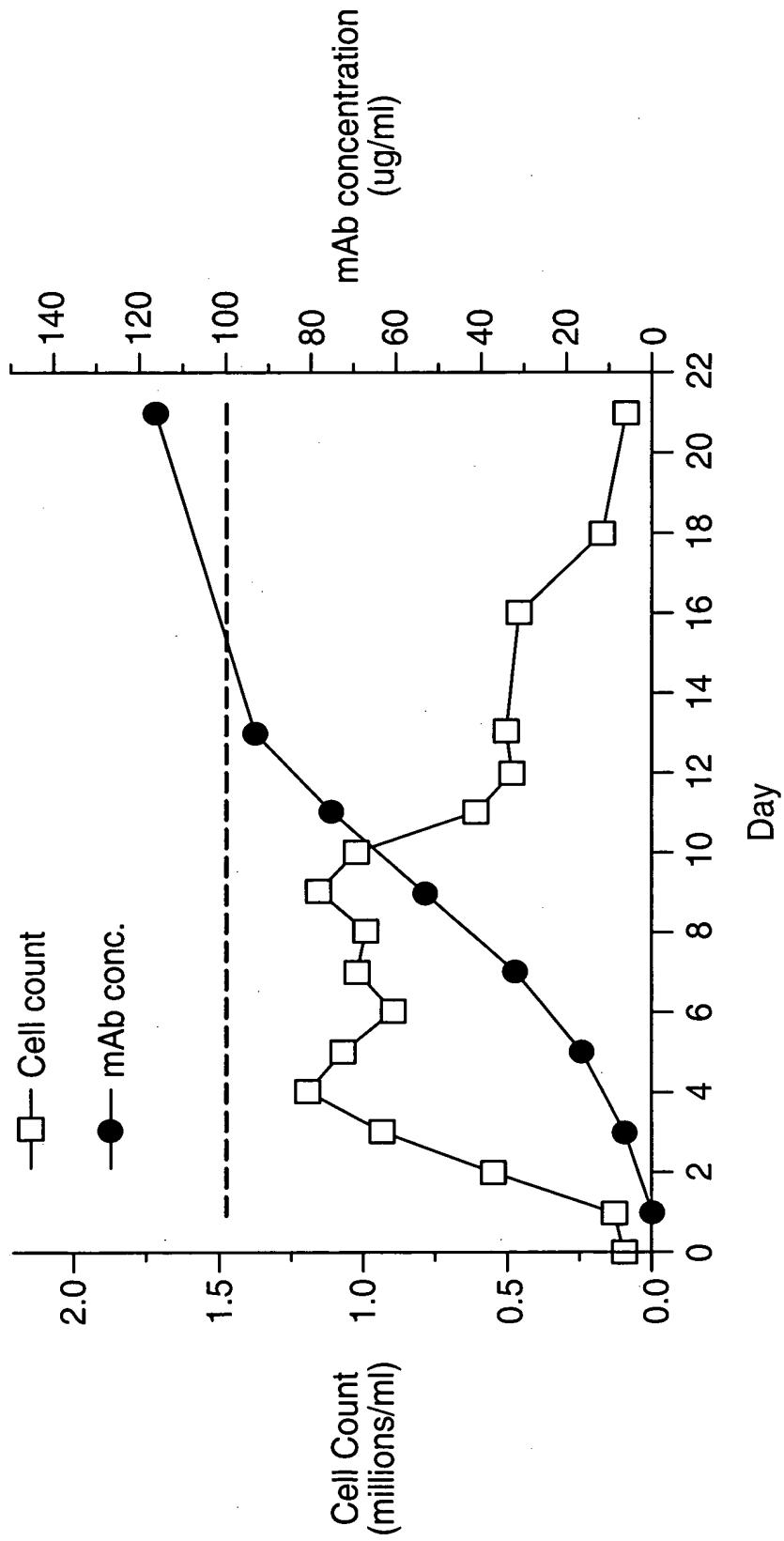
FIG. 7B



10/26

FIG. 7C

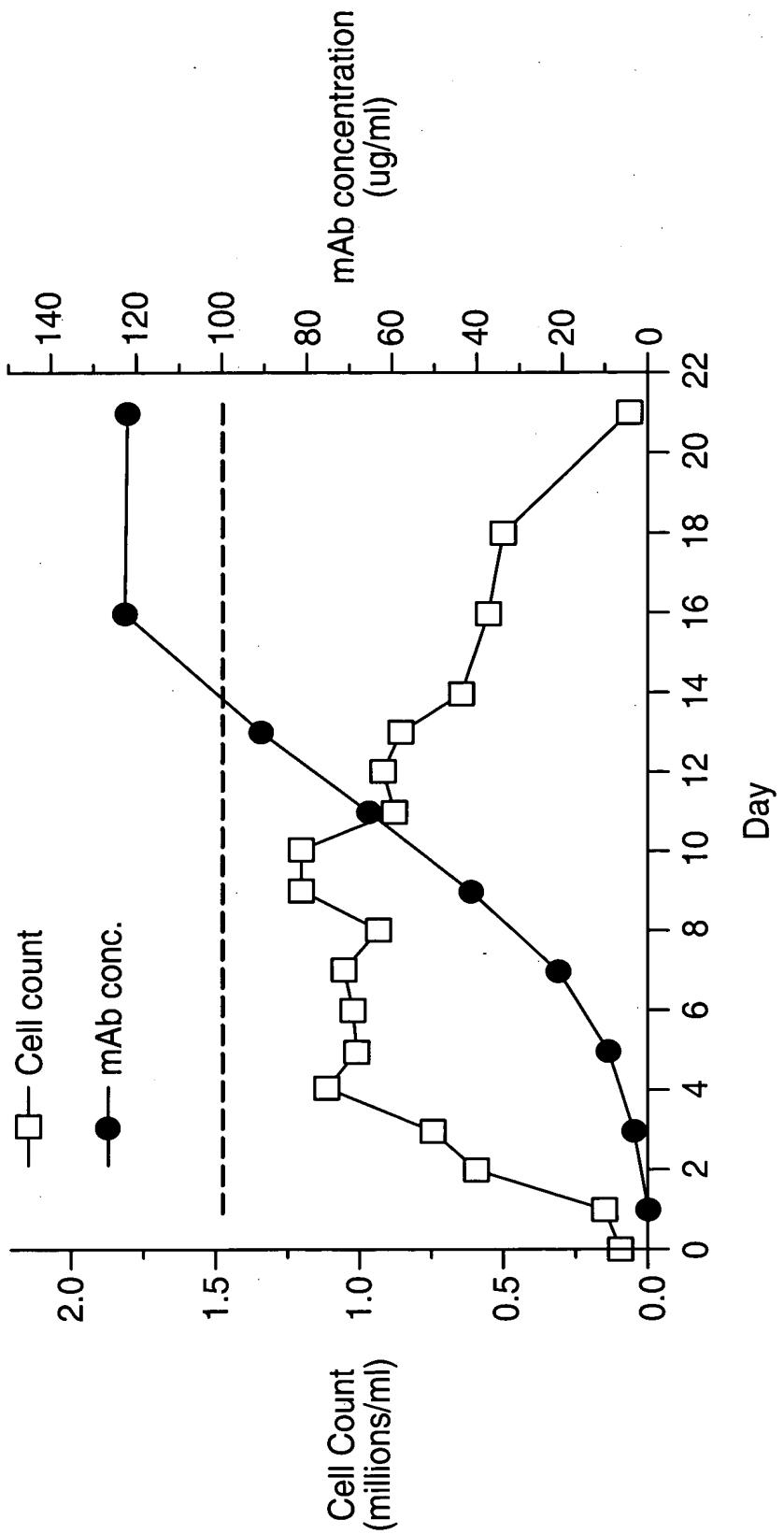
2.230-17-4 = C466C (653)



11/26

FIG. 7D

2.320-20-99 = C466D (653)



12/26

FIG. 7E

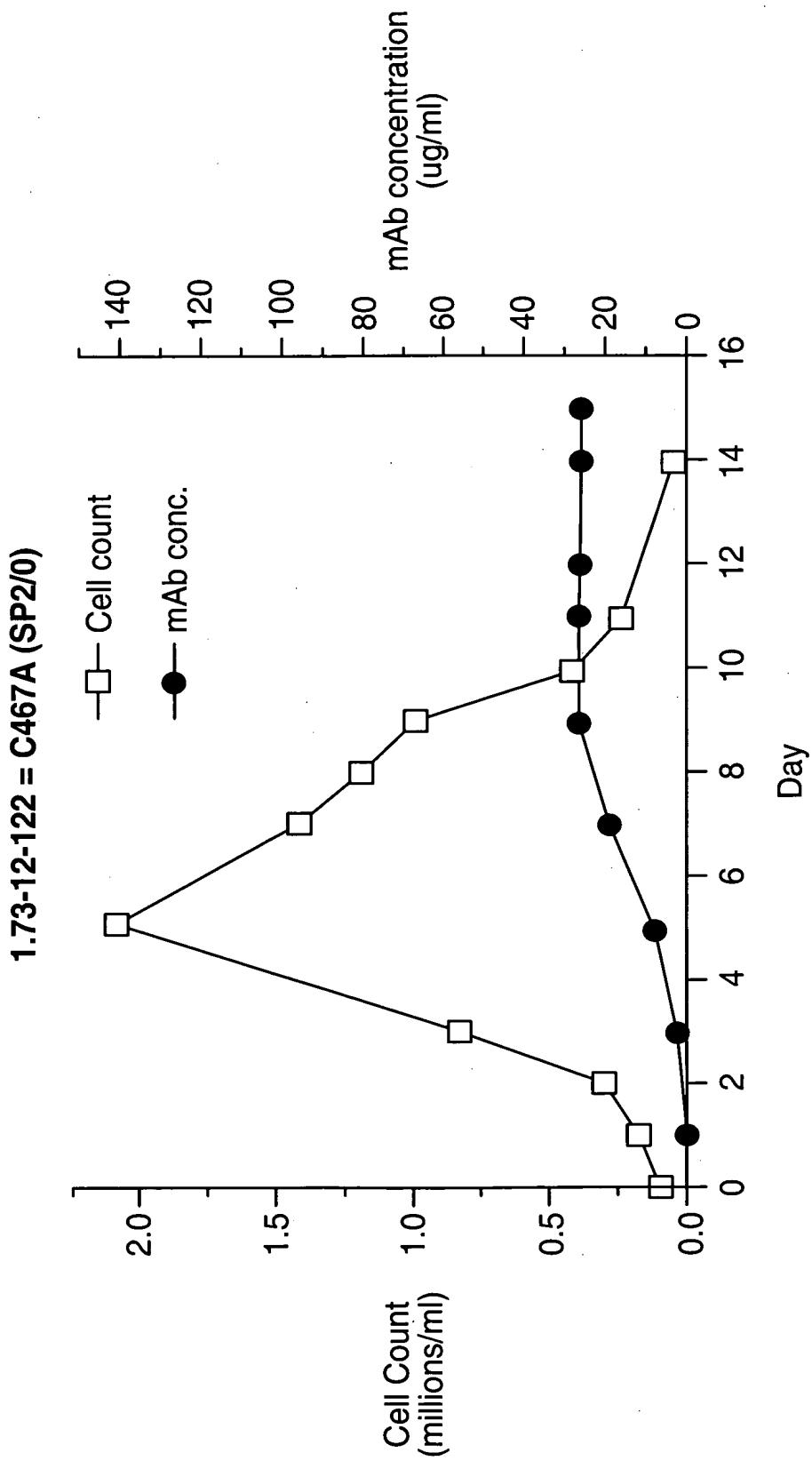
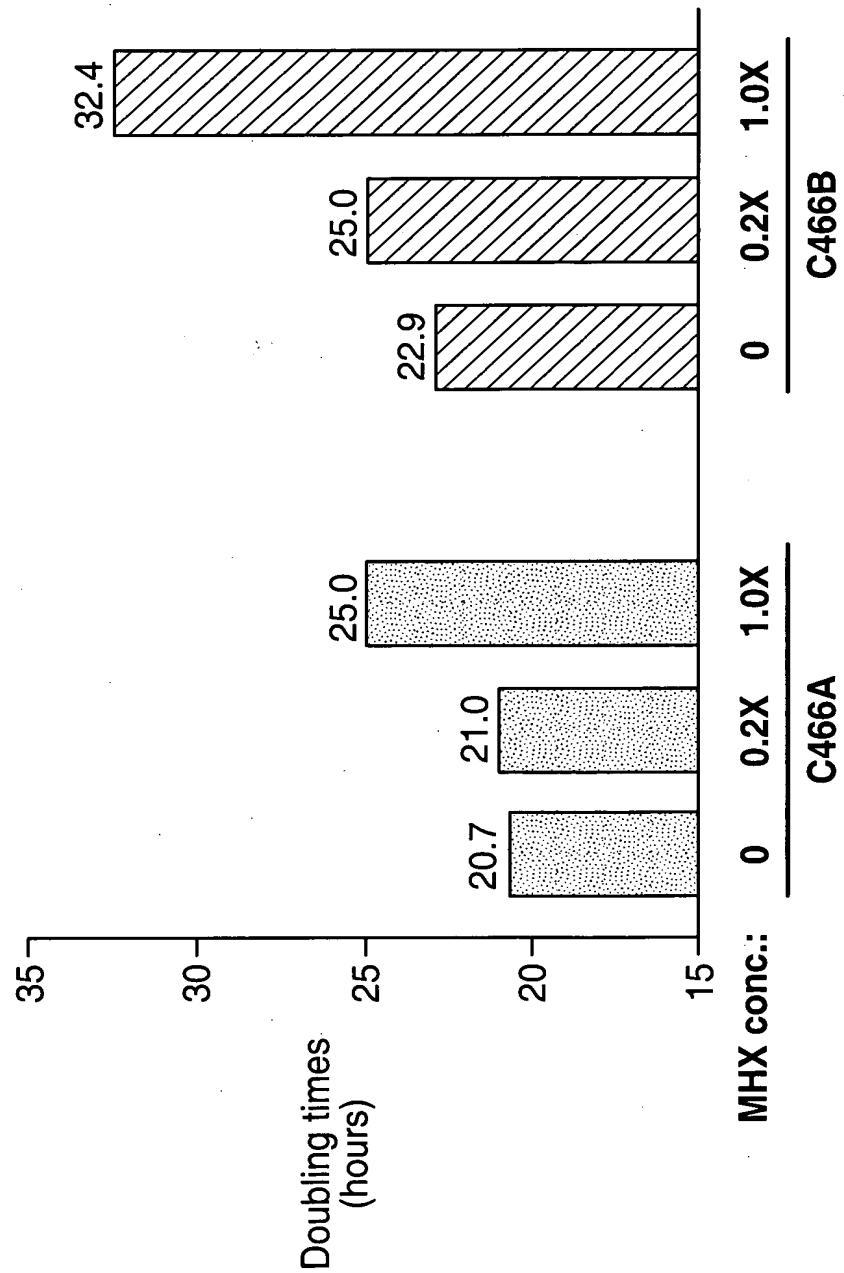


FIG. 8



14/26

FIG. 9A

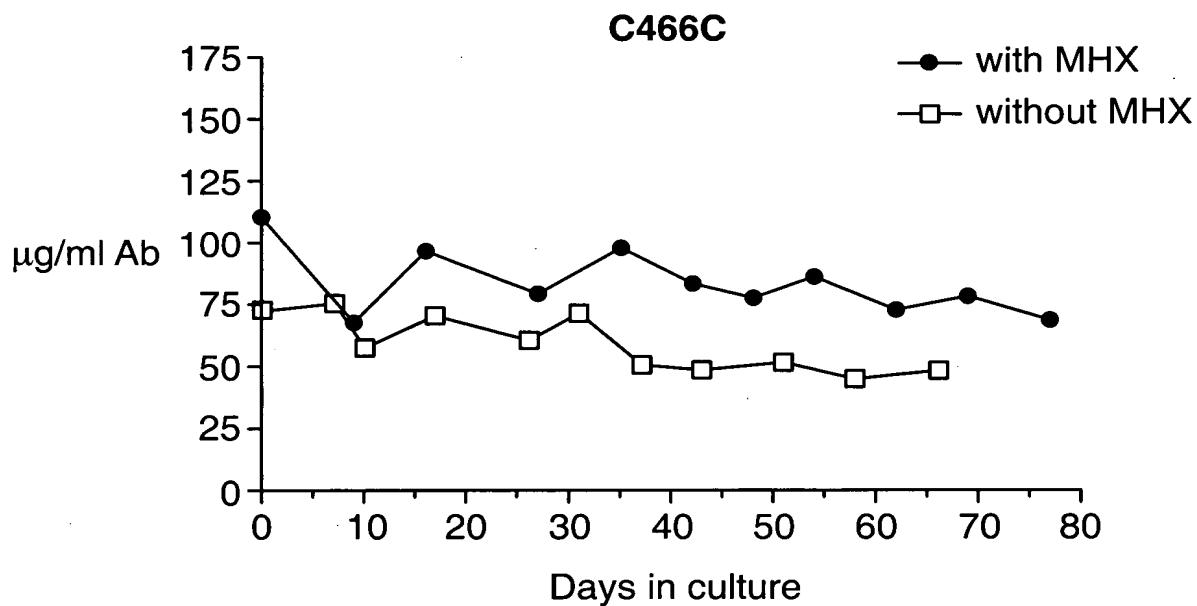


FIG. 9B

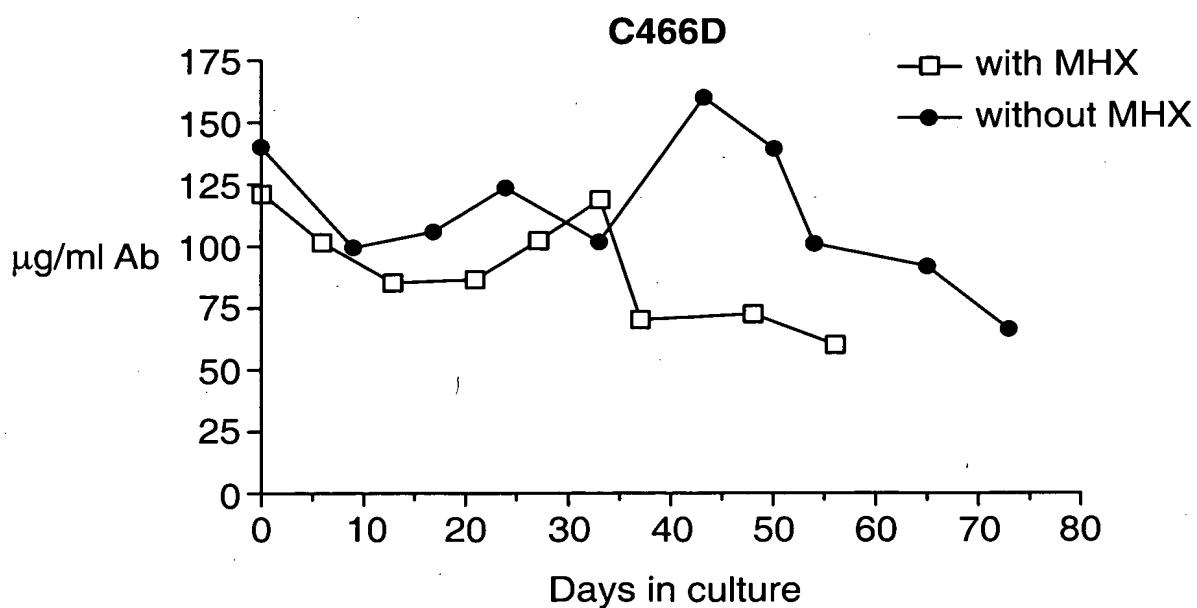


FIG. 10

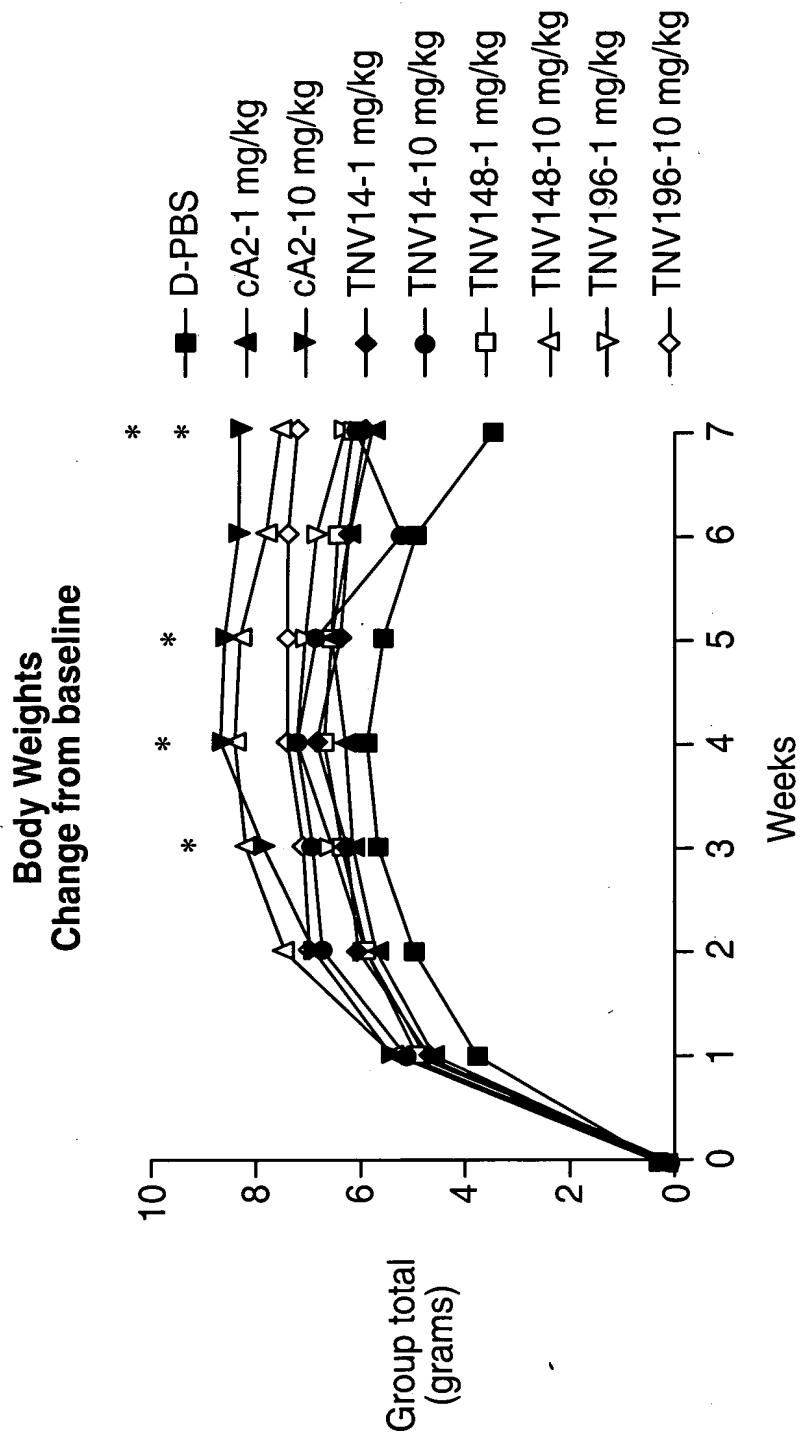
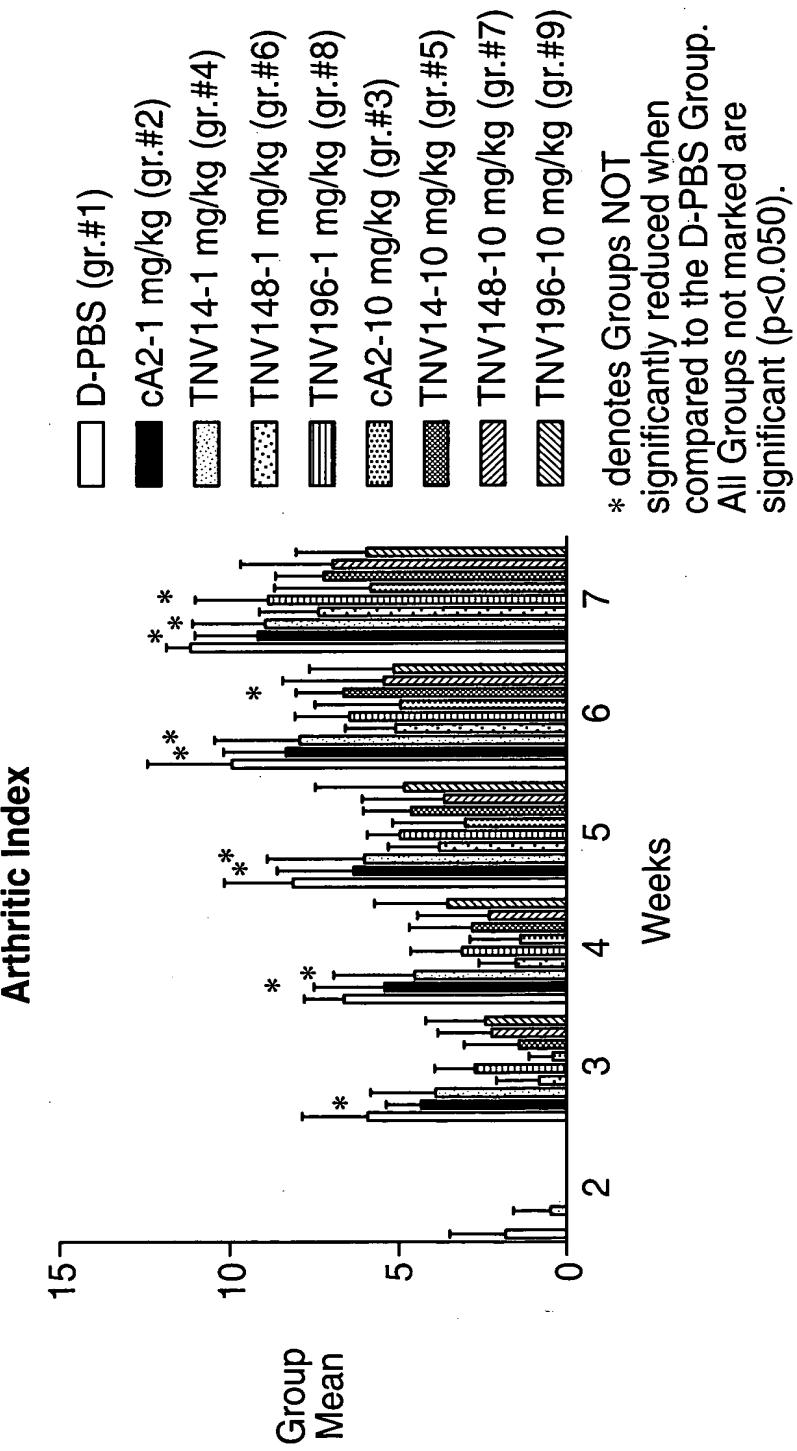


FIG. 11A



17/26

FIG. 11B

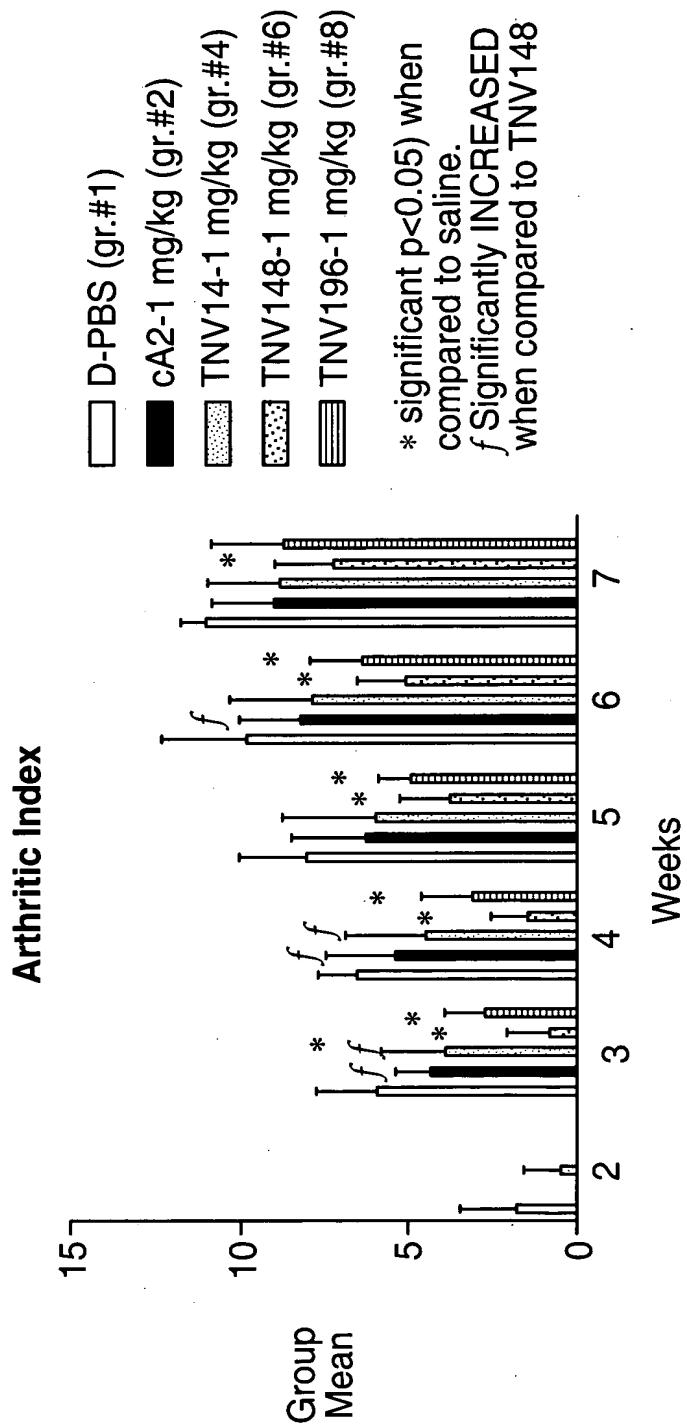
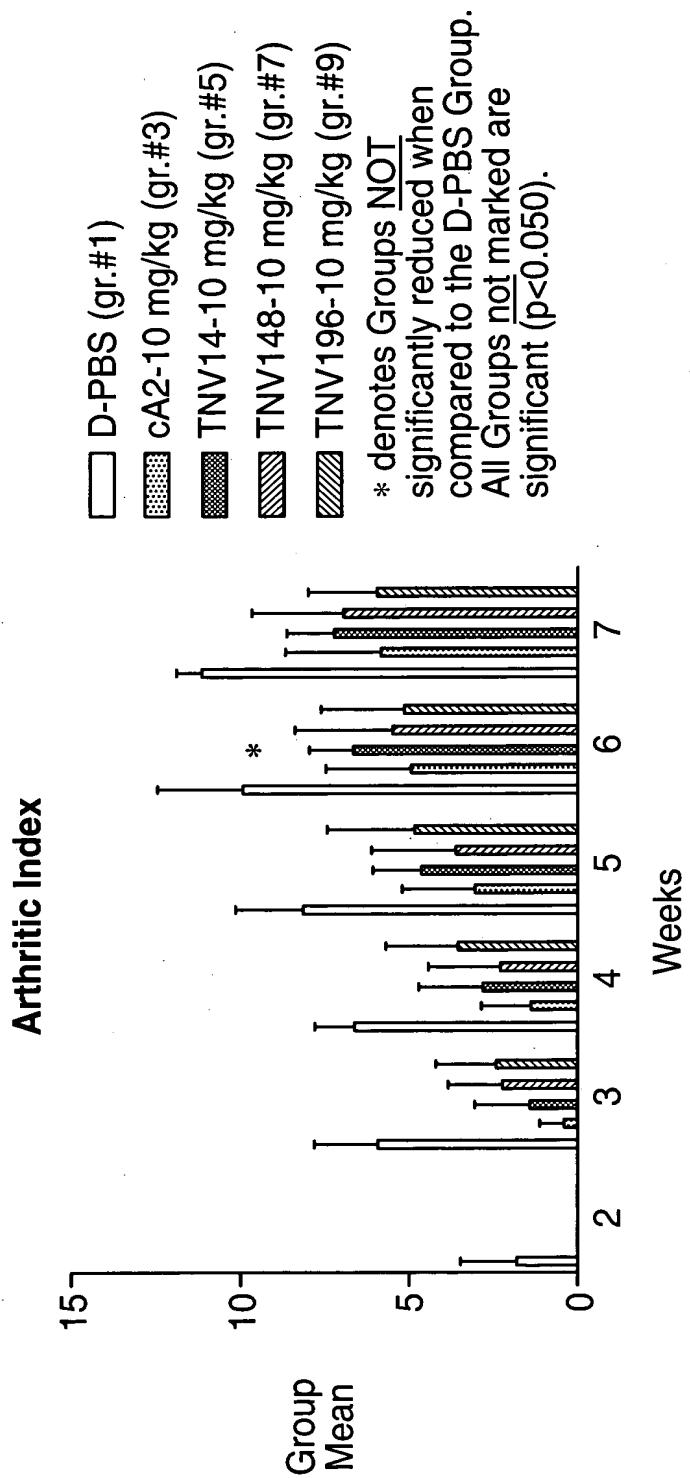
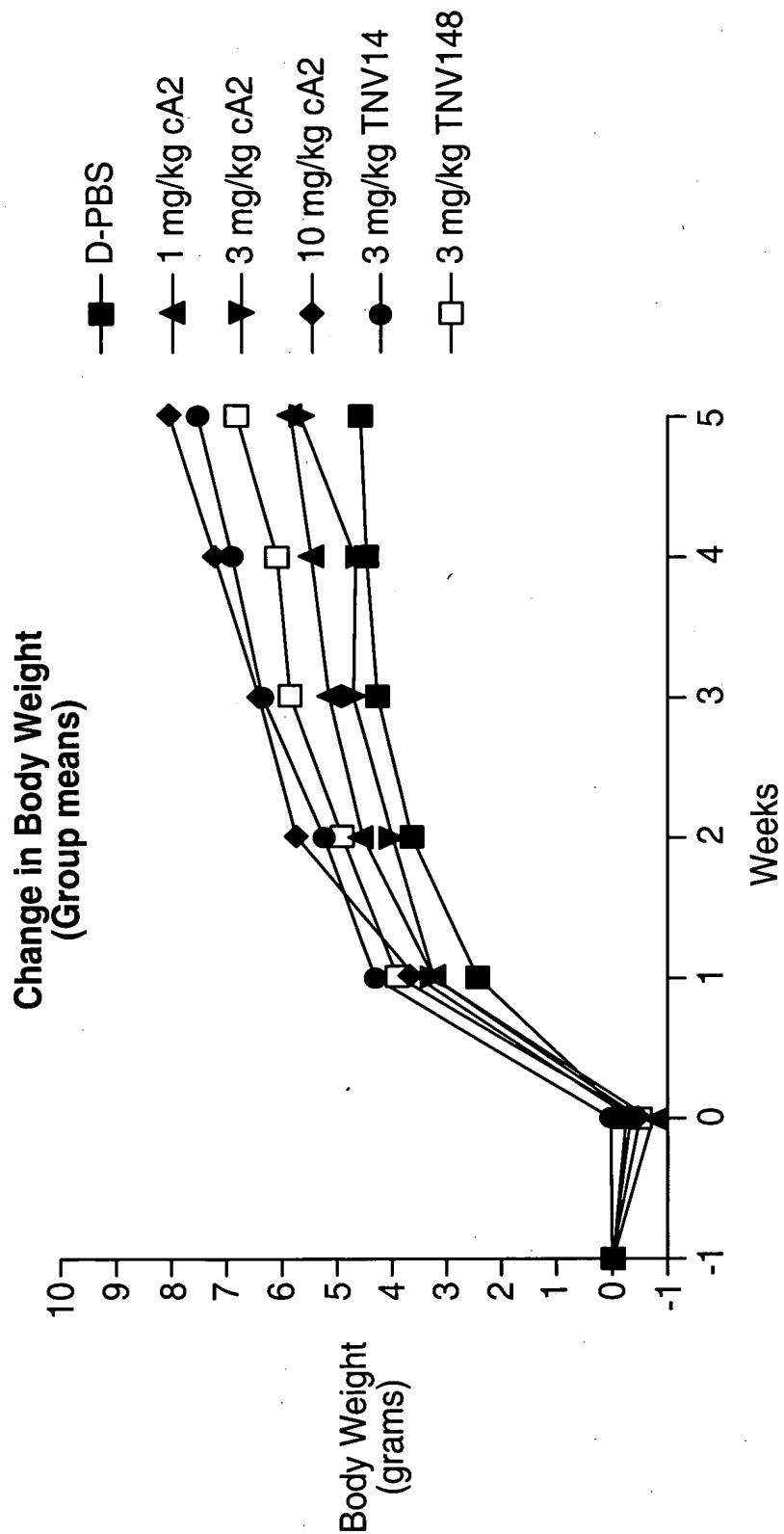


FIG. 11C



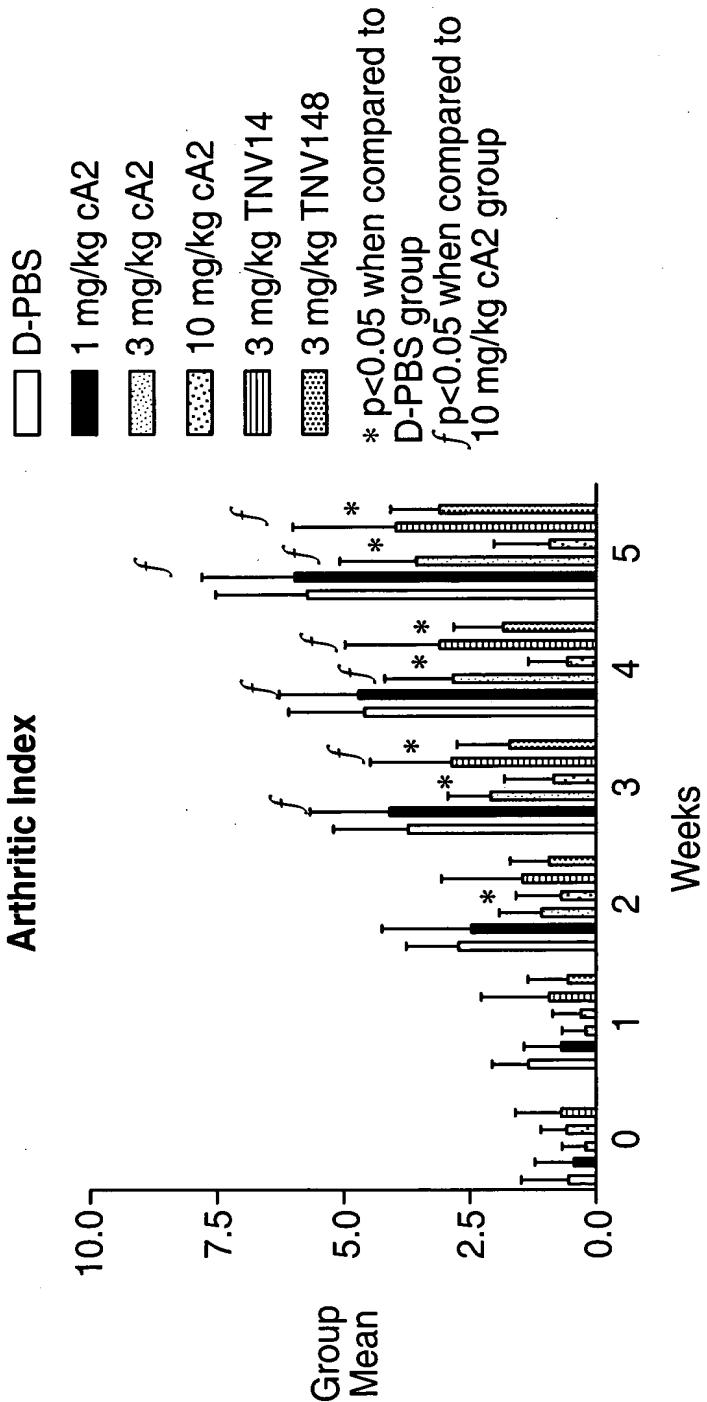
19/26

FIG. 12



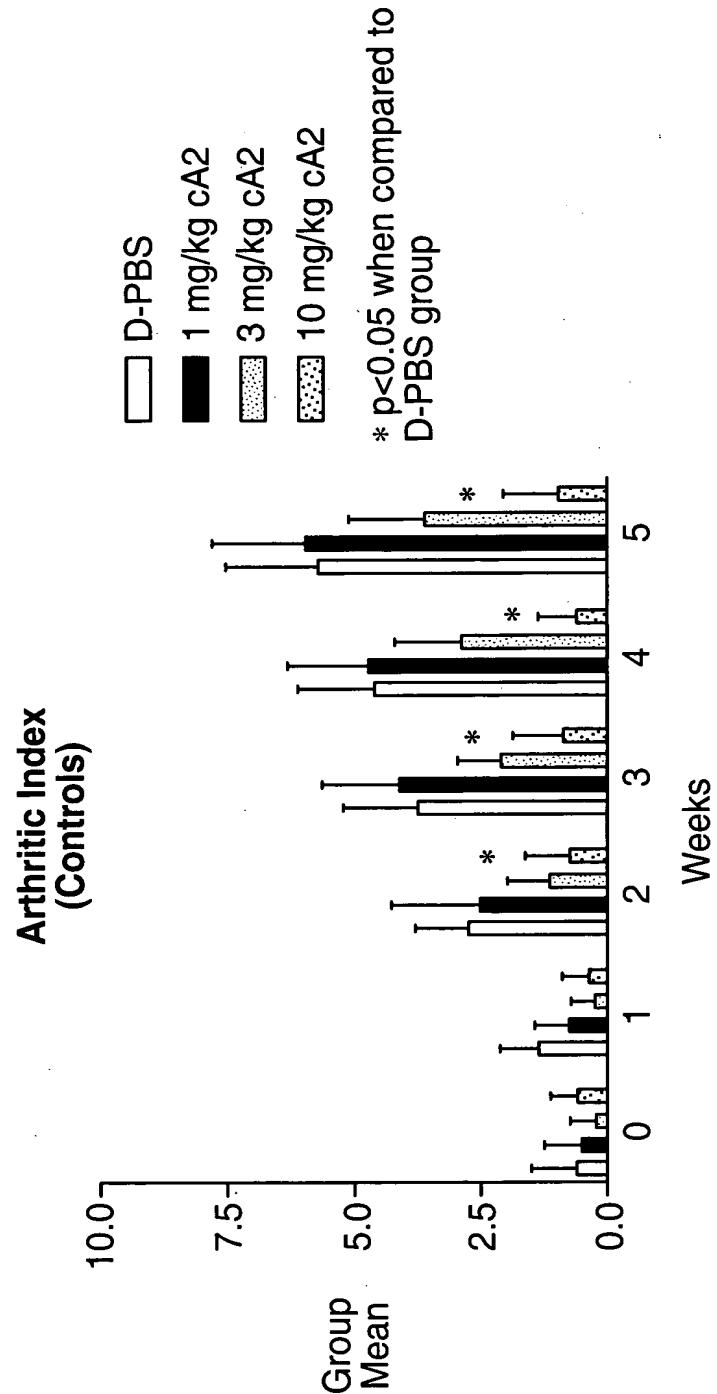
20/26

FIG. 13A



21/26

FIG. 13B



22/26

FIG. 13C

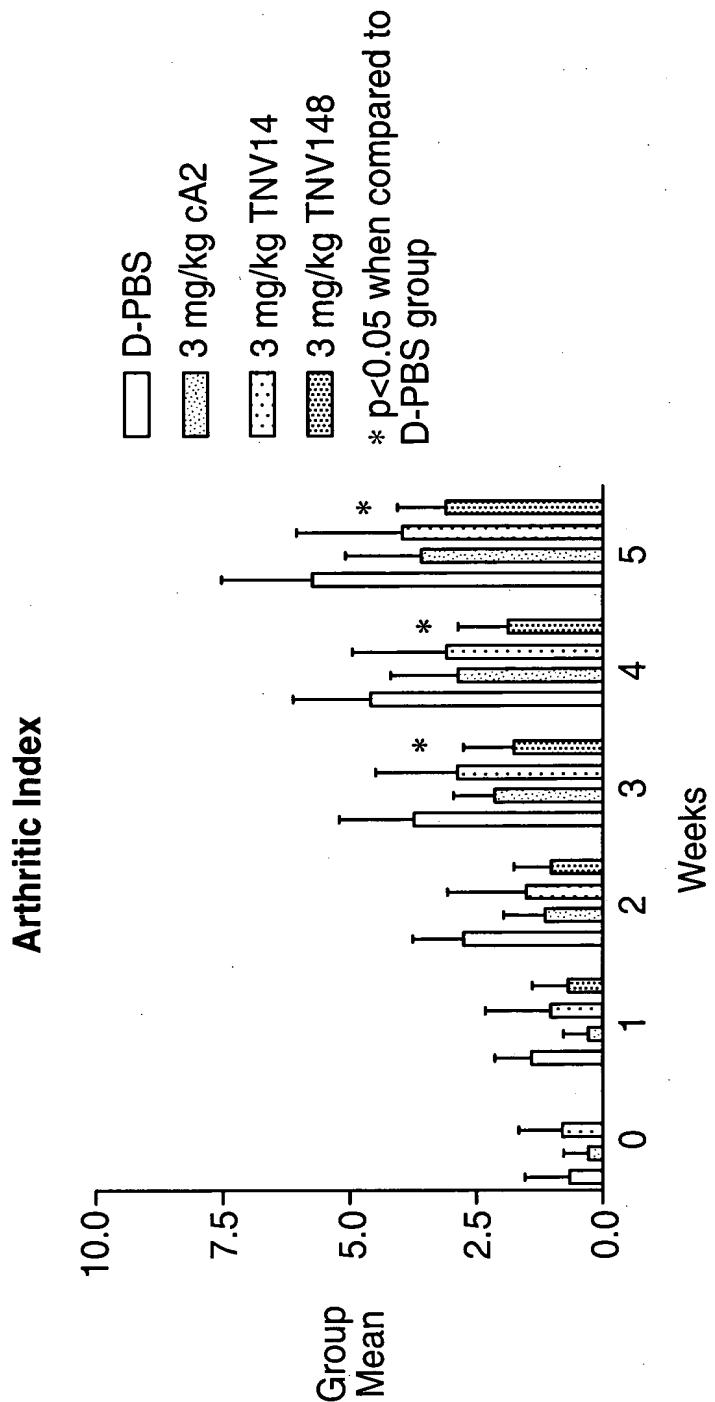


FIG. 14

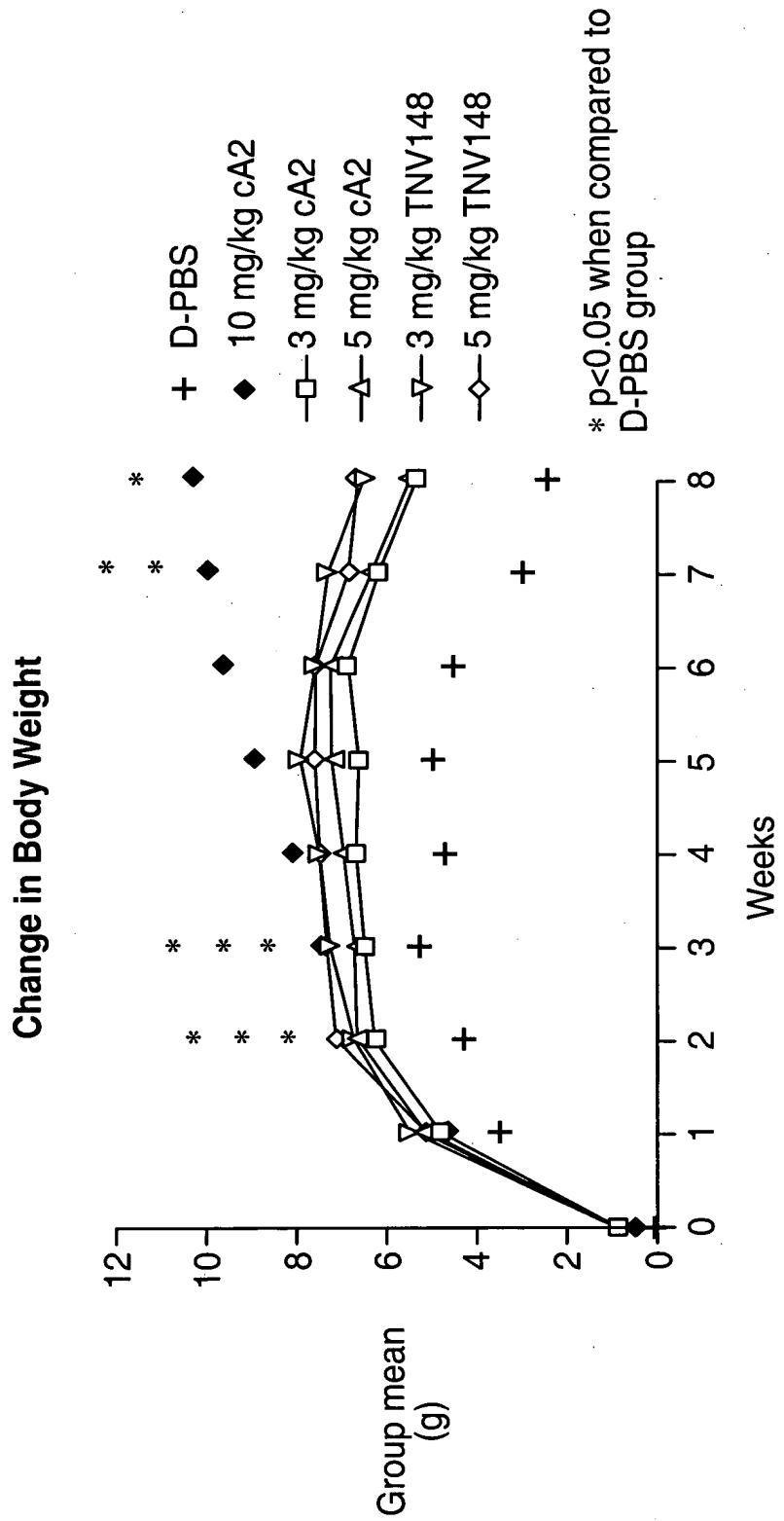
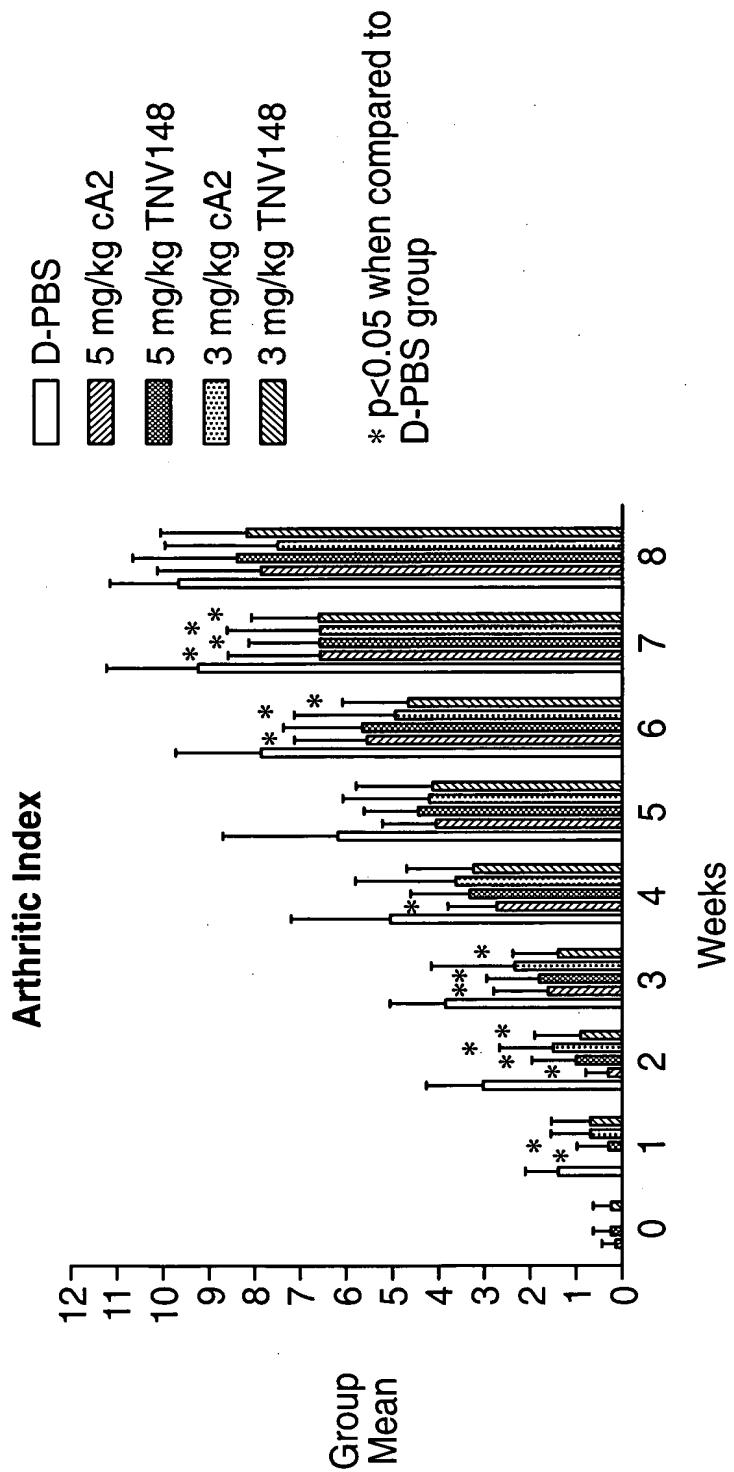


FIG. 15



25/26

FIG. 16

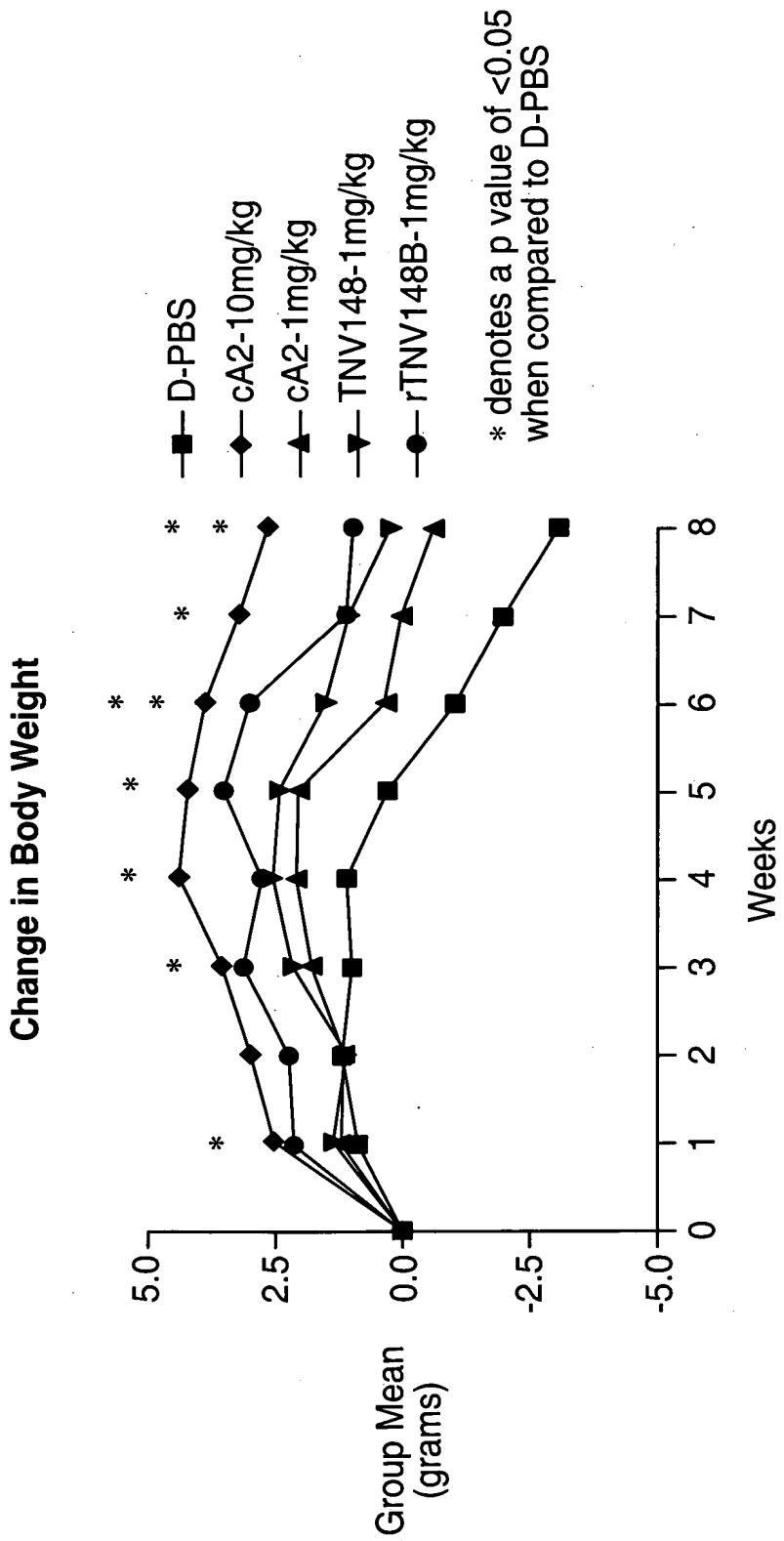


FIG. 17

